

WEST Search History

DATE: Wednesday, September 17, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
	DB=USPT,PGPB,EPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
L7	stabiliz\$ same (group? or moiet\$) and proline? and (thioredoxin or glutathione-S-transferase? or glutathione adj sulfotransferase or maltose adj binding adj protein? or glutathione adj reductase?) and (termin\$ same fus\$)	12	L7
L6	5856126.pn.	2	L6
L5	5744584.pn.	2	L5
L4	5342830.pn.	2	L4
L3	5856126.pn.	2	L3
L2	skpdnpgeda	0	L2
L1	5888763.pn. or 6329209.pn.	4	L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 12 of 12 returned.****1. Document ID: US 20030157113 A1**

L7: Entry 1 of 12

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030157113

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030157113 A1

TITLE: Compositions and methods for treatment of neoplastic disease

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Terman, David S.	Pebble Beach	CA	US	

US-CL-CURRENT: [424/184.1](#); [435/346](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment
------	-------	----------	-------	--------	----------------	------	-----------	----------	------------

Full	Drawings	Image
------	----------	-------

2. Document ID: US 20030148490 A1

L7: Entry 2 of 12

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148490

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030148490 A1

TITLE: Epoxide hydrolases, nucleic acids encoding them and methods for making and using them

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhao, Lishan	Carlsbad	CA	US	
Mathur, Eric J.	Carlsbad	CA	US	
Weiner, David	Del Mar	CA	US	
Richardson, Toby	San Diego	CA	US	
Milan, Aileen	San Diego	CA	US	
Burk, Mark J.	San Diego	CA	US	
Han, Bin	San Diego	CA	US	
Short, Jay M.	Rancho Santa Fe	CA	US	

US-CL-CURRENT: [435/196](#); [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment
------	-------	----------	-------	--------	----------------	------	-----------	----------	------------

Full	Drawings	Image
------	----------	-------

3. Document ID: US 20030148443 A1

L7: Entry 3 of 12

File: PGPB

Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030148443
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030148443 A1

TITLE: Epoxide hydrolases, nucleic acids encoding them and methods of making and using them

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhao, Lishan	Carlsbad	CA	US	
Mathur, Eric J.	Carlsbad	CA	US	
Weiner, David	Del Mar	CA	US	
Richardson, Toby	San Diego	CA	US	
Milan, Aileen	San Diego	CA	US	
Burk, Mark J.	San Diego	CA	US	
Han, Bin	San Diego	CA	US	
Short, Jay M.	Rancho Santa Fe	CA	US	

US-CL-CURRENT: 435/69.1; 435/158, 435/196, 435/320.1, 435/325, 536/23.2

Full	Title	Category	Front	Review	Classification	Date	Reference	Sequences	Attachment
------	-------	----------	-------	--------	----------------	------	-----------	-----------	------------

Full	Draw	Cell	Image
------	------	------	-------

4. Document ID: US 20030143562 A1

L7: Entry 4 of 12

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143562
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030143562 A1

TITLE: Structurally biased random peptide libraries based on different scaffolds

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Anderson, David	San Bruno	CA	US	
Peelle, Beau Robert	Locust Valley	NY	US	
Bogenberger, Jakob Maria	San Francisco	CA	US	

US-CL-CURRENT: 435/6; 536/23.1, 702/20

Full	Title	Category	Front	Review	Classification	Date	Reference	Sequences	Attachment
------	-------	----------	-------	--------	----------------	------	-----------	-----------	------------

Full	Draw	Cell	Image
------	------	------	-------

5. Document ID: US 20030113717 A1

L7: Entry 5 of 12

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113717

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113717 A1

TITLE: Directed evolution of novel binding proteins

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ladner, Robert Charles	Ijamsville	MD	US	
Guterman, Sonia Kosow	Belmont	MA	US	
Roberts, Bruce Lindsay	Milford	MA	US	
Markland, William	Milford	MA	US	
Ley, Arthur Charles	Newton	MA	US	
Kent, Rachel Baribault	Boxborough	MA	US	

US-CL-CURRENT: 435/6; 435/455, 435/7.2, 435/91.2

Full	Title	Citation	Front	Revised	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	---------	----------------	------	-----------	-----------	-------------

Find	Draw	Desc	Image
------	------	------	-------

└ 6. Document ID: US 20020177551 A1

L7: Entry 6 of 12

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177551

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177551 A1

TITLE: Compositions and methods for treatment of neoplastic disease

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Terman, David S.	Pebble Beach	CA	US	

US-CL-CURRENT: 514/12; 435/325, 530/350

Full	Title	Citation	Front	Revised	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	---------	----------------	------	-----------	-----------	-------------

Find	Draw	Desc	Image
------	------	------	-------

└ 7. Document ID: US 20020150881 A1

L7: Entry 7 of 12

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150881

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150881 A1

TITLE: Directed evolution of novel binding proteins

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ladner, Robert Charles	Ijamsville	MD	US	
Guterman, Sonia Kosow	Belmont	MA	US	
Roberts, Bruce Lindsay	Milford	MA	US	
Markland, William	Milford	MA	US	
Ley, Arthur Charles	Newton	MA	US	
Kent, Rachel Baribault	Boxborough	MA	US	

US-CL-CURRENT: 435/5; 435/235.1, 435/6, 435/7.1

Full	Title	Citation	Front	Revsion	Classification	Date	Reference	Sequence	Attachment
------	-------	----------	-------	---------	----------------	------	-----------	----------	------------

Full	Draw	Draw	Image
------	------	------	-------

└ 8. Document ID: US 6617114 B1

L7: Entry 8 of 12

File: USPT

Sep 9, 2003

US-PAT-NO: 6617114

DOCUMENT-IDENTIFIER: US 6617114 B1

TITLE: Identification of drug complementary combinatorial libraries

DATE-ISSUED: September 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fowlkes; Dana M.	Chapel Hill	NC		
Kay; Brian K.	Madison	WI		
Frelinger; Jeffrey A.	Chapel Hill	NC		
Hyde-Deruyser; Robin Parish	Chapel Hill	NC		

US-CL-CURRENT: 435/7.1; 435/4, 435/5, 435/6, 435/DIG.14, 435/DIG.2, 435/DIG.27,
435/DIG.9, 530/324, 530/325, 530/330, 530/350

Full	Title	Citation	Front	Revsion	Classification	Date	Reference	Sequence	Attachment
------	-------	----------	-------	---------	----------------	------	-----------	----------	------------

Full	Draw	Draw	Image
------	------	------	-------

└ 9. Document ID: US 5837500 A

L7: Entry 9 of 12

File: USPT

Nov 17, 1998

US-PAT-NO: 5837500

DOCUMENT-IDENTIFIER: US 5837500 A

TITLE: Directed evolution of novel binding proteins

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ladner; Robert Charles	Ijamsville	MD		
Guterman; Sonia Kosow	Belmont	MA		
Roberts; Bruce Lindsay	Milford	MA		
Markland; William	Milford	MA		
Ley; Arthur Charles	Newton	MA		
Kent; Rachel Baribault	Boxborough	MA		

US-CL-CURRENT: 435/69.7; 435/471, 435/91.1, 435/91.2, 530/350, 530/412, 536/23.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

Full	Draw Data	Image
------	-----------	-------

10. Document ID: US 5571698 A

L7: Entry 10 of 12

File: USPT

Nov 5, 1996

US-PAT-NO: 5571698

DOCUMENT-IDENTIFIER: US 5571698 A

**** See image for Certificate of Correction ****

TITLE: Directed evolution of novel binding proteins

DATE-ISSUED: November 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ladner; Robert C.	Ijamsville	MD		
Guterman; Sonia K.	Belmont	MA		
Roberts; Bruce L.	Milford	MA		
Markland; William	Milford	MA		
Ley; Arthur C.	Newton	MA		
Kent; Rachel B.	Boxborough	MA		

US-CL-CURRENT: 435/69.7; 435/252.3, 435/320.1, 435/477, 435/6, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

Full	Draw Data	Image
------	-----------	-------

11. Document ID: US 5403484 A

L7: Entry 11 of 12

File: USPT

Apr 4, 1995

US-PAT-NO: 5403484

DOCUMENT-IDENTIFIER: US 5403484 A

TITLE: Viruses expressing chimeric binding proteins

DATE-ISSUED: April 4, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ladner; Robert C.	Ijamsville	MD		
Guterman; Sonia K.	Belmont	MA		
Roberts; Bruce L.	Milford	MA		
Markland; William	Milford	MA		
Ley; Arthur C.	Newton	MA		
Kent; Rachel B.	Boxborough	MA		

US-CL-CURRENT: 435/235.1; 435/252.3, 435/320.1, 435/69.7, 530/350, 536/23.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

Full	Draw Data	Image
------	-----------	-------

12. Document ID: US 5223409 A

L7: Entry 12 of 12

File: USPT

Jun 29, 1993

US-PAT-NO: 5223409

DOCUMENT-IDENTIFIER: US 5223409 A

TITLE: Directed evolution of novel binding proteins

DATE-ISSUED: June 29, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ladner; Robert C.	Ijamsville	MD		
Guterman; Sonia K.	Belmont	MA		
Roberts; Bruce L.	Milford	MA		
Markland; William	Milford	MA		
Ley; Arthur C.	Newton	MA		
Kent; Rachel B.	Boxborough	MA		

US-CL-CURRENT: 435/69.7; 435/252.3, 435/320.1, 435/472, 435/5, 435/69.1, 530/387.3, 530/387.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment
------	-------	----------	-------	--------	----------------	------	-----------	----------	------------

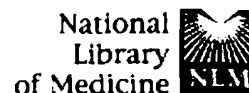
Full	Draw	Desc	Image
------	------	------	-------

Generate Collection

Print

Term	Documents
THIOREDOXIN	3094
THIOREDOXINS	360
GLUTATHIONE	20339
GLUTATHIONES	53
SULFOTRANSFERASE	409
SULFOTRANSFERASES	256
MALTOSE	25940
MALTOSES	39
BINDING	305728
BINDINGS	7733
STABILIZ\$	0
(STABILIZ\$ SAME (GROUP? OR MOIET\$) AND PROLINE? AND (THIOREDOXIN OR GLUTATHIONE-S-TRANSFERASE? OR GLUTATHIONE ADJ SULFOTRANSFERASE OR MALTOSE ADJ BINDING ADJ PROTEIN? OR GLUTATHIONE ADJ REDUCTASE?) AND (TERMIN\$ SAME FUSS\$)).USPT,PGPB,EPAB,DWPI,TDBD.	12

There are more results than shown above. Click here to view the entire set.



PubMed Nucleotide Protein Genome Structure PLoS Taxonomy OMIM Books

Search **PubMed** for

Go **Clear**

Limits

Preview/Index

History

Clipboard

Details

About Entrez

Display

Summary

Show: **20**

Sort

Send to **Text**

Text Version

Items 1-20 of 171

Page **1** of 9 **Next**

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

Privacy Policy

1: Sachdev D, Chirgwin JM.

[Related Articles](#), [Link](#)



Solubility of proteins isolated from inclusion bodies is enhanced by fusion to maltose-binding protein or thioredoxin.

Protein Expr Purif. 1998 Feb;12(1):122-32.

PMID: 9473466 [PubMed - indexed for MEDLINE]

2: Sachdev D, Chirgwin JM.

[Related Articles](#), [Link](#)



Order of fusions between bacterial and mammalian proteins can determine solubility in Escherichia coli.

Biochem Biophys Res Commun. 1998 Mar 27;244(3):933-7.

PMID: 9535771 [PubMed - indexed for MEDLINE]

3: Sachdev D, Chirgwin JM.

[Related Articles](#), [Link](#)



Properties of soluble fusions between mammalian aspartic proteinases and bacterial maltose-binding protein.

J Protein Chem. 1999 Jan;18(1):127-36.

PMID: 10071937 [PubMed - indexed for MEDLINE]

4: Kapust RB, Waugh DS.

[Related Articles](#), [Link](#)



Escherichia coli maltose-binding protein is uncommonly effective at promoting the solubility of polypeptides to which it is fused.

Protein Sci. 1999 Aug;8(8):1668-74.

PMID: 10452611 [PubMed - indexed for MEDLINE]

5: Sachdev D, Chirgwin JM.

[Related Articles](#), [Link](#)



Fusions to maltose-binding protein: control of folding and solubility in protein purification.

Methods Enzymol. 2000;326:312-21. No abstract available.

PMID: 11036650 [PubMed - indexed for MEDLINE]

6: Conner GE, Udey JA.

[Related Articles](#), [Link](#)



Expression and refolding of recombinant human fibroblast procathepsin D.

DNA Cell Biol. 1990 Jan-Feb;9(1):1-9.

PMID: 2180427 [PubMed - indexed for MEDLINE]

7: Nomine Y, Ristriani T, Laurent C, Lefevre JF, Weiss E, Trave G.

[Related Articles](#), [Link](#)



Formation of soluble inclusion bodies by hpv e6 oncoprotein fused to maltose-binding protein.

Protein Expr Purif. 2001 Oct;23(1):22-32.


PMID: 11570842 [PubMed - indexed for MEDLINE]

8:


[Related Articles](#), [Link](#)

Jacquet A, Daminet V, Haumont M, Garcia L, Chaudoir S, Bollen A,


Biemans R.

-  **Expression of a recombinant *Toxoplasma gondii* ROP2 fragment as a fusion protein in bacteria circumvents insolubility and proteolytic degradation.**
Protein Expr Purif. 1999 Dec;17(3):392-400.
PMID: 10600457 [PubMed - indexed for MEDLINE]


▢ **9:** Hering TM, Kollar J, Huynh TD, Varelas JB. [Related Articles](#), [Link](#)

-  **Purification and characterization of decorin core protein expressed in *Escherichia coli* as a maltose-binding protein fusion.**
Anal Biochem. 1996 Aug 15;240(1):98-108.
PMID: 8811884 [PubMed - indexed for MEDLINE]


▢ **10:** Sun AL, Hua ZC, Yao J, Yang YH, Yin DQ. [Related Articles](#), [Link](#)

-  **Fusion expression of human pro-urokinase with *E. coli* thioredoxin.**
Biochem Mol Biol Int. 1998 Oct;46(3):479-86.
PMID: 9818087 [PubMed - indexed for MEDLINE]


▢ **11:** Sonezaki S, Kondo A, Oba T, Ishii Y, Kato Y, Nakayama H. [Related Articles](#), [Link](#)

-  **Overproduction and purification of Lon protease from *Escherichia coli* using a maltose-binding protein fusion system.**
Appl Microbiol Biotechnol. 1994 Nov;42(2-3):313-8.
PMID: 7765772 [PubMed - indexed for MEDLINE]


▢ **12:** Tanaka T, Yada RY. [Related Articles](#), [Link](#)

-  **Expression of soluble cloned porcine pepsinogen A in *Escherichia coli*.**
Biochem J. 1996 Apr 15;315 (Pt 2):443-6.
PMID: 8615812 [PubMed - indexed for MEDLINE]


▢ **13:** Dolinar M, Maganja DB, Turk V. [Related Articles](#), [Link](#)

-  **Expression of full-length human procathepsin L cDNA in *Escherichia coli* and refolding of the expression product.**
Biol Chem Hoppe Seyler. 1995 Jun;376(6):385-8.
PMID: 7576233 [PubMed - indexed for MEDLINE]


▢ **14:** Pryor KD, Leiting B. [Related Articles](#), [Link](#)

-  **High-level expression of soluble protein in *Escherichia coli* using a His6-tag and maltose-binding-protein double-affinity fusion system.**
Protein Expr Purif. 1997 Aug;10(3):309-19.
PMID: 9268677 [PubMed - indexed for MEDLINE]

▢ **15:** Fox JD, Kapust RB, Waugh DS. [Related Articles](#), [Link](#)

-  **Single amino acid substitutions on the surface of *Escherichia coli* maltose-binding protein can have a profound impact on the solubility of fusion proteins.**
Protein Sci. 2001 Mar;10(3):622-30.
PMID: 11344330 [PubMed - indexed for MEDLINE]

▢ **16:** Zhao JH, Xu Z, Hua ZC. [Related Articles](#), [Link](#)

-  **Expression of human cardiac-specific homeobox protein in *Escherichia coli*.**
Protein Expr Purif. 2000 Apr;18(3):316-9.
PMID: 10733885 [PubMed - indexed for MEDLINE]

▢ **17:** Zhao G, Meier TI, Hoskins J, Jaskunas SR. [Related Articles](#), [Link](#)



Penicillin-binding protein 2a of *Streptococcus pneumoniae*: expression in *Escherichia coli* and purification and refolding of inclusion bodies into a soluble and enzymatically active enzyme.

Protein Expr Purif. 1999 Jul;16(2):331-9.

PMID: 10419829 [PubMed - indexed for MEDLINE]

- ☐ **18:** LaVallie ER, DiBlasio EA, Kovacic S, Grant KL, Schendel PF, McCoy JM. [Related Articles](#). [Link](#)



A thioredoxin gene fusion expression system that circumvents inclusion body formation in the *E. coli* cytoplasm.

Biotechnology (N Y). 1993 Feb;11(2):187-93.

PMID: 7763371 [PubMed - indexed for MEDLINE]

- ☐ **19:** di Guan C, Li P, Riggs PD, Inouye H. [Related Articles](#). [Link](#)



Vectors that facilitate the expression and purification of foreign peptides in *Escherichia coli* by fusion to maltose-binding protein.

Gene. 1988 Jul 15;67(1):21-30.

PMID: 2843437 [PubMed - indexed for MEDLINE]

- ☐ **20:** Dickason RR, Edwards RA, Bryan J, Huston DP. [Related Articles](#). [Link](#)



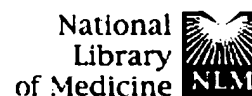
Versatile *E. coli* thioredoxin specific monoclonal antibodies afford convenient analysis and purification of prokaryote expressed soluble fusion protein.

J Immunol Methods. 1995 Sep 25;185(2):237-44.

PMID: 7561134 [PubMed - indexed for MEDLINE]

Display Show: Sort Send to
 Items 1-20 of 171 Page of 9 [Next](#)

Write to the Help Desk
 NCBI | NLM | NIH
 Department of Health & Human Services
 Freedom of Information Act | Disclaimer



[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
[Structure](#)
[PMC](#)
[Taxonomy](#)
[OMIM](#)
[Book](#)

Search **PubMed** for **Go** **Clear**

[Limits](#)
[Preview/Index](#)
[History](#)
[Clipboard](#)
[Details](#)

About Entrez

Display **Summary** Show: **20** Sort **Text** Send to **Text**

Text Version Items 21-40 of 171 Previous **Page** **2** of 9 Next

Entrez PubMed

[Overview](#)
[Help | FAQ](#)
[Tutorial](#)
[New/Noteworthy](#)
[E-Utilities](#)

PubMed Services

[Journals Database](#)
[MeSH Database](#)
[Single Citation Matcher](#)
[Batch Citation Matcher](#)
[Clinical Queries](#)
[LinkOut](#)
[Cubby](#)

Related Resources

[Order Documents](#)
[NLM Gateway](#)
[TOXNET](#)
[Consumer Health](#)
[Clinical Alerts](#)
[ClinicalTrials.gov](#)
[PubMed Central](#)

[Privacy Policy](#)

☐ **21:** Richo G, Conner GE. [Related Articles](#), [Link](#)



Proteolytic activation of human procathepsin D.

Adv Exp Med Biol. 1991;306:289-96. Review.

PMID: 1812719 [PubMed - indexed for MEDLINE]

☐ **22:** Chen GQ, Gouaux JE. [Related Articles](#), [Link](#)



Overexpression of bacterio-opsin in Escherichia coli as a water-soluble fusion to maltose binding protein: efficient regeneration of the fusion protein and selective cleavage with trypsin.

Protein Sci. 1996 Mar;5(3):456-67.

PMID: 8868482 [PubMed - indexed for MEDLINE]

☐ **23:** Ribas AV, Ho PL, Tanizaki MM, Raw I, Nascimento AL. [Related Articles](#), [Link](#)



High-level expression of tetanus toxin fragment C-thioredoxin fusion protein in Escherichia coli.

Biotechnol Appl Biochem. 2000 Apr;31 (Pt 2):91-4.

PMID: 10744952 [PubMed - indexed for MEDLINE]

☐ **24:** Sachdev D, Schorey J, Chirgwin J. [Related Articles](#), [Link](#)



Efficient mutagenesis, expression and purification of procathepsin D.

Adv Exp Med Biol. 1991;306:335-8. No abstract available.

PMID: 1812723 [PubMed - indexed for MEDLINE]

☐ **25:** D'alessio KJ, McQueney MS, Brun KA, Orsini MJ, Debouck CM. [Related Articles](#), [Link](#)



Expression in Escherichia coli, refolding, and purification of human procathepsin K, an osteoclast-specific protease.

Protein Expr Purif. 1999 Mar;15(2):213-20.

PMID: 10049678 [PubMed - indexed for MEDLINE]

☐ **26:** Maina CV, Riggs PD, Grandea AG 3rd, Slatko BE, Moran LS, Tagliamonte JA, McReynolds LA, Guan CD. [Related Articles](#), [Link](#)



An Escherichia coli vector to express and purify foreign proteins by fusion to and separation from maltose-binding protein.

Gene. 1988 Dec 30;74(2):365-73.

PMID: 3073105 [PubMed - indexed for MEDLINE]

☐ **27:** Wang C, Castro AF, Wilkes DM, Altenberg GA. [Related Articles](#), [Link](#)



Expression and purification of the first nucleotide-binding domain and linker region of human multidrug resistance gene product: comparison of fusions to glutathione S-transferase, thioredoxin and maltose-binding protein.

Biochem J. 1999 Feb 15;338 (Pt 1):77-81.

PMID: 9931301 [PubMed - indexed for MEDLINE]

- ▢ **28:** Bach H, Mazor Y, Shaky S, Shoham-Lev A, Berdichevsky Y, Gutnick DL, Benhar I. [Related Articles](#). [Link](#)



Escherichia coli maltose-binding protein as a molecular chaperone for recombinant intracellular cytoplasmic single-chain antibodies.

J Mol Biol. 2001 Sep 7;312(1):79-93.

PMID: 11545587 [PubMed - indexed for MEDLINE]

- ▢ **29:** Riggs P. [Related Articles](#). [Link](#)



Expression and purification of recombinant proteins by fusion to maltose-binding protein.

Mol Biotechnol. 2000 May;15(1):51-63.

PMID: 10911622 [PubMed - indexed for MEDLINE]

- ▢ **30:** Sonezaki S, Ishii Y, Okita K, Sugino T, Kondo A, Kato Y. [Related Articles](#). [Link](#)



Overproduction and purification of Sula fusion protein in Escherichia coli and its degradation by Lon protease in vitro.

Appl Microbiol Biotechnol. 1995 May-Jun;43(2):304-9.

PMID: 7612249 [PubMed - indexed for MEDLINE]

- ▢ **31:** Corchero JL, Viaplana E, Benito A, Villaverde A. [Related Articles](#). [Link](#)



The position of the heterologous domain can influence the solubility and proteolysis of beta-galactosidase fusion proteins in E. coli.

J Biotechnol. 1996 Jul 31;48(3):191-200.

PMID: 8861998 [PubMed - indexed for MEDLINE]

- ▢ **32:** Dieryck W, Lullien-Pellerin V, Marion D, Joudrier P, Gautier MF. [Related Articles](#). [Link](#)



Purification and activity of a wheat 9-kDa lipid transfer protein expressed in Escherichia coli as a fusion with the maltose binding protein.

Protein Expr Purif. 1995 Oct;6(5):597-603.

PMID: 8535151 [PubMed - indexed for MEDLINE]

- ▢ **33:** Aitken R, Gilchrist J, Sinclair MC. [Related Articles](#). [Link](#)



Vectors to facilitate the creation of translational fusions to the maltose-binding protein of Escherichia coli.

Gene. 1994 Jun 24;144(1):69-73.

PMID: 8026760 [PubMed - indexed for MEDLINE]

- ▢ **34:** Chang SY, Tsai PC, Tseng CS, Liang PH. [Related Articles](#). [Link](#)



Refolding and characterization of a yeast dehydrolipichyl diphosphate synthase overexpressed in Escherichia coli.

Protein Expr Purif. 2001 Dec;23(3):432-9.

PMID: 11722180 [PubMed - indexed for MEDLINE]

- ▢ **35:** Hayhurst A. [Related Articles](#). [Link](#)




Improved expression characteristics of single-chain Fv fragments when fused downstream of the Escherichia coli maltose-binding protein or upstream of a single immunoglobulin-constant domain.

Protein Expr Purif. 2000 Feb;18(1):1-10.


PMID: 10648163 [PubMed - indexed for MEDLINE]

- ▢ **36:** Han BG, Ma XK, Meng L, Song XG, Peng SY, Wang JX, Ling SG. [Related Articles](#). [Link](#)


Thioredoxin fusion/HIV-1 protease coexpression system for production of

 soluble human IL6 in E. coli cytoplasm.
Biochem Mol Biol Int. 1998 Nov;46(4):839-46.
PMID: 9844745 [PubMed - indexed for MEDLINE]


 **37:** Zouhar J, Nanak E, Brzobohaty B. [Related Articles](#), [Link](#)


 Expression, single-step purification, and matrix-assisted refolding of a maize cytokinin glucoside-specific beta-glucosidase.
Protein Expr Purif. 1999 Oct;17(1):153-62.
PMID: 10497081 [PubMed - indexed for MEDLINE]


 **38:** Alexandrov A, Dutta K, Pascal SM. [Related Articles](#), [Link](#)

 MBP fusion protein with a viral protease cleavage site: one-step cleavage/purification of insoluble proteins.
Biotechniques. 2001 Jun;30(6):1194-8. No abstract available.
PMID: 11414203 [PubMed - indexed for MEDLINE]

 **39:** Davis GD, Elisee C, Newham DM, Harrison RG. [Related Articles](#), [Link](#)

 New fusion protein systems designed to give soluble expression in Escherichia coli.
Biotechnol Bioeng. 1999 Nov 20;65(4):382-8.
PMID: 10506413 [PubMed - indexed for MEDLINE]

 **40:** Reddy A, Grimwood BG, Plummer TH, Tarentino AL. [Related Articles](#), [Link](#)

 High-level expression of the Endo-beta-N-acetylglucosaminidase F2 gene in E.coli: one step purification to homogeneity.
Glycobiology. 1998 Jun;8(6):633-6.
PMID: 9592130 [PubMed - indexed for MEDLINE]

Display Summary Show: 20 Sort Send to Text
Items 21-40 of 171 Previous Page 2 of 9 Next

Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Freedom of Information Act | Disclaimer

Sep 4, 2003 16:00



PubMed Nucleotide Protein Genomic Structure PACC Taxonomy OMIM Bi
Search PubMed for Go Clear
Limits Preview/Index History Clipboard Details

About Entrez

Display Summary Show: 20 Sort Send to Text

Text Version

Items 41-60 of 171

Previous Page 3 of 9 Next

Entrez PubMed
Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
LinkOut
Cubby

Related Resources
Order Documents
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Privacy Policy

41: Routzahn KM, Waugh DS. Related Articles, Link

Differential effects of supplementary affinity tags on the solubility of MBP fusion proteins.
J Struct Funct Genomics. 2002;2(2):83-92.
PMID: 12836665 [PubMed - indexed for MEDLINE]

42: Hellman J, Lassila P, Mantsala P. Related Articles, Link

In vitro refolding of cyclomaltodextrin glucanotransferase from cytoplasmic inclusion bodies formed upon expression in Escherichia coli.
Protein Expr Purif. 1995 Feb;6(1):56-62.
PMID: 7756839 [PubMed - indexed for MEDLINE]

43: Sati SP, Singh SK, Kumar N, Sharma A. Related Articles, Link

Extra terminal residues have a profound effect on the folding and solubility of a Plasmodium falciparum sexual stage-specific protein over-expressed in Escherichia coli.
Eur J Biochem. 2002 Nov;269(21):5259-63.
PMID: 12392558 [PubMed - indexed for MEDLINE]

44: Jiang ST, Tzeng SS, Wu WT, Chen GH. Related Articles, Link

Enhanced expression of chicken cystatin as a thioredoxin fusion form in Escherichia coli AD494(DE3)pLysS and its effect on the prevention of surimi gel softening.
J Agric Food Chem. 2002 Jun 19;50(13):3731-7.
PMID: 12059151 [PubMed - indexed for MEDLINE]

45: Aoki T, Tomaki E, Satoh M, Takashiro M, Onagi H, Itoh M, Teramoto T, Morikawa J, Watabe H. Related Articles, Link

Purification of recombinant human pepsinogens and their application as immunoassay standards.
Biochem Mol Biol Int. 1998 Jun;45(2):289-301.
PMID: 9678250 [PubMed - indexed for MEDLINE]

46: Kopitar G, Dolinar M, Strukelj B, Pungercar J, Turk V. Related Articles, Link

Folding and activation of human procathepsin S from inclusion bodies produced in Escherichia coli.
Eur J Biochem. 1996 Mar 1;236(2):558-62.
PMID: 8612629 [PubMed - indexed for MEDLINE]

47: Varelas JB, Roy C, Hering TM. Related Articles, Link

A structural requirement of zinc for the folding of recombinant link protein
Arch Biochem Biophys. 1997 Nov 1;347(1):1-8.

PMID: 9344458 [PubMed - indexed for MEDLINE]

- ▢ **48:** Nomine Y, Ristriani T, Laurent C, Lefevre JF, Weiss E, Trave G. [Related Articles](#). [Link](#)



A strategy for optimizing the monodispersity of fusion proteins: application to purification of recombinant HPV E6 oncoprotein.

Protein Eng. 2001 Apr;14(4):297-305.

PMID: 11391022 [PubMed - indexed for MEDLINE]

- ▢ **49:** Mambetisaeva ET, Martin PE, Evans WH. [Related Articles](#). [Link](#)



Expression of three functional domains of connexin 32 as thioredoxin fusion proteins in Escherichia coli and generation of antibodies.

Protein Expr Purif. 1997 Oct;11(1):26-34.

PMID: 9325135 [PubMed - indexed for MEDLINE]

- ▢ **50:** Austin C. [Related Articles](#). [Link](#)



Novel approach to obtain biologically active recombinant heterodimeric proteins in Escherichia coli.

J Chromatogr B Analyt Technol Biomed Life Sci. 2003 Mar 25;786(1-2):93-107.

PMID: 12651005 [PubMed - in process]

- ▢ **51:** Hennig L, Schafer E. [Related Articles](#). [Link](#)



Protein purification with C-terminal fusion of maltose binding protein.

Protein Expr Purif. 1998 Dec;14(3):367-70.

PMID: 9882570 [PubMed - indexed for MEDLINE]

- ▢ **52:** Berdichevsky Y, Lamed R, Frenkel D, Gophna U, Bayer EA, [Related Articles](#). [Link](#)
Yaron S, Shoham Y, Benhar I.



Matrix-assisted refolding of single-chain Fv- cellulose binding domain fusion proteins.

Protein Expr Purif. 1999 Nov;17(2):249-59.

PMID: 10545273 [PubMed - indexed for MEDLINE]

- ▢ **53:** Ahaded A, Winchenne JJ, Cartron JP, Lambin P, Lopez C. [Related Articles](#). [Link](#)



The extracellular domain of the human erythropoietin receptor: expression as a fusion protein in Escherichia coli, purification, and biological properties.

Prep Biochem Biotechnol. 1999 May;29(2):163-76.

PMID: 10231895 [PubMed - indexed for MEDLINE]

- ▢ **54:** Weller U, Muller L, Messner M, Palmer M, Valeva A, Tranum-Jensen J, Agrawal P, Biermann C, Dobereiner A, Kehoe MA, [Related Articles](#). [Link](#)
Bhakdi S.



Expression of active streptolysin O in Escherichia coli as a maltose-binding-protein--streptolysin-O fusion protein. The N-terminal 70 amino acids are not required for hemolytic activity.

Eur J Biochem. 1996 Feb 15;236(1):34-9.

PMID: 8617283 [PubMed - indexed for MEDLINE]

- ▢ **55:** Miller KW, Konen PL, Olson J, Ratanavanich KM. [Related Articles](#). [Link](#)



Membrane protein topology determination by proteolysis of maltose binding protein fusions.

Anal Biochem. 1993 Nov 15;215(1):118-28.

PMID: 8297003 [PubMed - indexed for MEDLINE]

- ▢ **56:** Cho TH, Ahn SJ, Lee EK. [Related Articles](#). [Link](#)



Refolding of protein inclusion bodies directly from *E. coli* homogenate using expanded bed adsorption chromatography.

Bioseparation. 2001;10(4-5):189-96.

PMID: 12233741 [PubMed - indexed for MEDLINE]

☐ **57:** Lu H, Zhang H, Wang Q, Yuan H, He W, Zhao Z, Li Y.

[Related Articles](#). [Link](#)



Purification, refolding of hybrid hIFNgamma-kringle 5 expressed in *Escherichia coli*.

Curr Microbiol. 2001 Mar;42(3):211-6.

PMID: 11270657 [PubMed - indexed for MEDLINE]

☐ **58:** Smith PA, Tripp BC, DiBlasio-Smith EA, Lu Z, LaVallie ER, McCoy JM.

[Related Articles](#). [Link](#)



A plasmid expression system for quantitative in vivo biotinylation of thioredoxin fusion proteins in *Escherichia coli*.

Nucleic Acids Res. 1998 Mar 15;26(6):1414-20.

PMID: 9490786 [PubMed - indexed for MEDLINE]

☐ **59:** Liu Q, Willson P, Attoh-Poku S, Babiuk LA.

[Related Articles](#). [Link](#)



Bacterial expression of an immunologically reactive PCV2 ORF2 fusion protein.

Protein Expr Purif. 2001 Feb;21(1):115-20.

PMID: 11162395 [PubMed - indexed for MEDLINE]

☐ **60:** Handl CE, Harel J, Flock JI, Dubreuil JD.

[Related Articles](#). [Link](#)



High yield of active STb enterotoxin from a fusion protein (MBP-STb) expressed in *Escherichia coli*.

Protein Expr Purif. 1993 Aug;4(4):275-81.

PMID: 8374296 [PubMed - indexed for MEDLINE]

Display

Summary

Show:

20

Sort

Send to

Text

Items 41-60 of 171

[Previous](#)

Page 3

of 9 [Next](#)

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Freedom of Information Act](#) | [Disclaimer](#)

Sep 4, 2003 10:00

FILE 'HOME' ENTERED AT 17:07:34 ON 17 SEP 2003

=> file bioscience chemistry

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

FILE 'ENCOMPLIT' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'ADISCTI' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 Adis Data Information BV

FILE 'ADISINSIGHT' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 Adis Data Information BV

FILE 'ADISNEWS' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 Adis Data Information BV

FILE 'AGRICOLA' ENTERED AT 17:07:49 ON 17 SEP 2003

FILE 'ANABSTR' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (c) 2003 THE ROYAL SOCIETY OF CHEMISTRY (RSC)

FILE 'AQUASCI' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT 2003 FAO (On behalf of the ASFA Advisory Board). All rights reserved.

FILE 'BIOBUSINESS' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 Biological Abstracts, Inc. (BIOSIS)

FILE 'BIOCOMMERCE' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 BioCommerce Data Ltd. Richmond Surrey, United Kingdom. All rights reserved

FILE 'BIOSIS' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'BIOTECHNO' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'CABA' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 CAB INTERNATIONAL (CABI)

FILE 'CANCERLIT' ENTERED AT 17:07:49 ON 17 SEP 2003

FILE 'CAPLUS' ENTERED AT 17:07:49 ON 17 SEP 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CEABA-VTB' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (c) 2003 DECHEMA eV

FILE 'CEN' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 American Chemical Society (ACS)

FILE 'CIN' ENTERED AT 17:07:49 ON 17 SEP 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2003 American Chemical Society (ACS)

FILE 'CONFSCI' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'CROPB' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'CROPU' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'DDFB' ACCESS NOT AUTHORIZED

FILE 'DDFU' ACCESS NOT AUTHORIZED

FILE 'DGENE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'DRUGB' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'DRUGLAUNCH' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 IMSWORLD Publications Ltd

FILE 'DRUGMONOG2' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 IMSWORLD Publications Ltd

FILE 'DRUGNL' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 IMSWORLD Publications Ltd

FILE 'DRUGU' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'DRUGUPDATES' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 IMSWORLD Publications Ltd

FILE 'EMBAL' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'EMBASE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'ESBIOBASE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'FEDRIP' ENTERED AT 17:07:49 ON 17 SEP 2003

FILE 'FOMAD' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Leatherhead Food Research Association

FILE 'FOREGE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Leatherhead Food Research Association

FILE 'FROSTI' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Leatherhead Food Research Association

FILE 'FSTA' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 International Food Information Service

FILE 'GENBANK' ENTERED AT 17:07:49 ON 17 SEP 2003

FILE 'HEALSAFE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'IFIPAT' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 IFI CLAIMS(R) Patent Services (IFI)

FILE 'JICST-EPLUS' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Japan Science and Technology Corporation (JST)

FILE 'KOSMET' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 International Federation of the Societies of Cosmetics Chemists

FILE 'LIFESCI' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'MEDICONF' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (c) 2003 FAIRBASE Datenbank GmbH, Hannover, Germany

FILE 'MEDLINE' ENTERED AT 17:07:49 ON 17 SEP 2003

FILE 'NIOSHTIC' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 U.S. Secretary of Commerce on Behalf of the U.S. Government

FILE 'NTIS' ENTERED AT 17:07:49 ON 17 SEP 2003
Compiled and distributed by the NTIS, U.S. Department of Commerce.
It contains copyrighted material.
All rights reserved. (2003)

FILE 'NUTRACEUT' ENTERED AT 17:07:49 ON 17 SEP 2003
Copyright 2003 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'OCEAN' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'PASCAL' ENTERED AT 17:07:49 ON 17 SEP 2003
Any reproduction or dissemination in part or in full,
by means of any process and on any support whatsoever
is prohibited without the prior written agreement of INIST-CNRS.
COPYRIGHT (C) 2003 INIST-CNRS. All rights reserved.

FILE 'PCTGEN' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 WIPO

FILE 'PHAR' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 PJB Publications Ltd. (PJB)

FILE 'PHARMAML' ENTERED AT 17:07:49 ON 17 SEP 2003
Copyright 2003 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'PHIC' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 PJB Publications Ltd. (PJB)

FILE 'PHIN' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 PJB Publications Ltd. (PJB)

FILE 'PROMT' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Gale Group. All rights reserved.

FILE 'RDISCLOSURE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Kenneth Mason Publications Ltd.

FILE 'SCISEARCH' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT 2003 THOMSON ISI

FILE 'SYNTHLINE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Prous Science

FILE 'TOXCENTER' ENTERED AT 17:07:49 ON 17 SEP 2003

COPYRIGHT (C) 2003 ACS

FILE 'USPATFULL' ENTERED AT 17:07:49 ON 17 SEP 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 17:07:49 ON 17 SEP 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'VETB' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'VETU' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'WPIDS' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

FILE 'ALUMINIUM' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'APOLLIT' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (c) 2003 FIZ Karlsruhe

FILE 'AQUIRE' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 US Environmental Protection Agency (EPA)

FILE 'BABS' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (c) 2003 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften
licensed to Beilstein Chemiedaten & Software GmbH and MDL Information Systems GmbH

FILE 'CAOLD' ENTERED AT 17:07:49 ON 17 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CBNB' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (c) 2003 ELSEVIER ENGINEERING INFORMATION, INC.

FILE 'CERAB' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'COMPENDEX' ENTERED AT 17:07:49 ON 17 SEP 2003
Compendex Compilation and Indexing (C) 2003
Elsevier Engineering Information Inc (EEI). All rights reserved.
Compendex (R) is a registered Trademark of Elsevier Engineering Information Inc.

FILE 'COPPERLIT' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Copper Development Association Inc. (CDA)

FILE 'CORROSION' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'ENCOMPLIT2' ENTERED AT 17:07:49 ON 17 SEP 2003
EnComplit2 compilation and indexing (C) 2003
Elsevier Engineering Information Inc. All rights reserved.

FILE 'INSPEC' ENTERED AT 17:07:49 ON 17 SEP 2003
Compiled and produced by the IEE in association with FIZ KARLSRUHE
COPYRIGHT 2003 (c) INSTITUTION OF ELECTRICAL ENGINEERS (IEE)

FILE 'INSPHYS' ENTERED AT 17:07:49 ON 17 SEP 2003
Compiled and produced by the IEE in association with FIZ KARLSRUHE
COPYRIGHT 2003 (c) INSTITUTION OF ELECTRICAL ENGINEERS (IEE)

FILE 'INVESTEXT' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Thomson Financial Services, Inc. (TFS)

FILE 'IPA' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 American Society of Hospital Pharmacists (ASHP)

FILE 'METADEX' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (c) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'NAPRALERT' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Board of Trustees of the University of Illinois,
University of Illinois at Chicago.

FILE 'PAPERCHEM2' ENTERED AT 17:07:49 ON 17 SEP 2003
Paperchem2 compilation and indexing (C) 2003
Elsevier Engineering Information Inc. All rights reserved.

FILE 'RAPRA' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 RAPRA Technology Ltd.

FILE 'RUSSCI' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 Andrigal Ltd.

FILE 'STANDARDS' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 GERMAN INFORMATION CENTRE FOR TECHNICAL RULES (DITR) IN DIN

FILE 'TULSA' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 The University of Tulsa (UTULSA)

FILE 'TULSA2' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 The University of Tulsa (UTULSA)

FILE 'USAN' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 U.S. Pharmacopeial Convention, Inc. (USPC)

FILE 'WELDASEARCH' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (c) 2003 The Welding Institute (TWI)

FILE 'WSCA' ENTERED AT 17:07:49 ON 17 SEP 2003
COPYRIGHT (C) 2003 PAINT RESEARCH

=> s (?peptide? same stabil? or (stabil (w) (group? or moiet?)) and (proline# or
Pro-Pro?) and(thioredoxin or glutathione (w) sulfotransferase or maltose (w) binding (w)
protein# or glutathione (w) reductase) and fusion
(W) IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s (?peptide? same stabil? or (stabil (w) (group? or moiet?)) and (proline# or
Pro-Pro?) and(thioredoxin or glutathione (w) sulfotransferase or maltose (w binding (w)
protein# or glutathione (w) reductase) and fus?
MISSING OPERATOR 'MALTOSE (W'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s (?peptide? or protein?) same stabil? or (stabil (w) (group? or moiet?)) and
(proline# or Pro-Pro?) and(thioredoxin or glutathione (w) sulfotransferase or maltose (w)
binding (w) protein# or glutathione (w) reductase) and fus?
UNMATCHED LEFT PARENTHESIS ' (?PEPTIDE?'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (peptide? or protein?) same stabil? or (stabil (w) (group? or moiet?)) and
(proline# or Pro-Pro?) and(thioredoxin or glutathione (w) sulfotransferase or maltose
(w) binding (w) protein# or glutathione (w) reductase) and fus?

MISSING OPERATOR PROTEIN?) SAME

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (peptide? or protein?) (s) stabil? or (stabil (w) (group? or moiet?)) and (proline# or Pro-Pro?) and(thioredoxin or glutathione (w) sulfotransferase or maltose (w) binding (w) protein# or glutathione (w) reductase) and fus?

L1 139 FILE ADISCTI
L2 110 FILE ADISINSIGHT
L3 95 FILE ADISNEWS
L4 3159 FILE AGRICOLA
L5 497 FILE ANABSTR
L6 1136 FILE AQUASCI
L7 2006 FILE BIOBUSINESS
L8 165 FILE BIOCOMMERCE
L9 47286 FILE BIOSIS
L10 4813 FILE BIOTECHDS
L11 25291 FILE BIOTECHNO
L12 7297 FILE CABA

<-----User Break----->

SEARCH ENDED BY USER

=> s (peptide? or protein?) (s) (stabil? or (stabil (w) (group? or moiet?))) and (proline# or Pro-Pro?) and(thioredoxin or glutathione (w) sulfotransferase or maltose (w) binding (w) protein# or glutathione (w) reductase) and fus?

L13 0 FILE ADISCTI
L14 0 FILE ADISINSIGHT
L15 0 FILE ADISNEWS
L16 0 FILE AGRICOLA
L17 0 FILE ANABSTR
L18 0 FILE AQUASCI
L19 0 FILE BIOBUSINESS
L20 0 FILE BIOCOMMERCE
L21 1 FILE BIOSIS
L22 0 FILE BIOTECHDS
L23 2 FILE BIOTECHNO
L24 0 FILE CABA
L25 0 FILE CANCERLIT
L26 2 FILE CAPLUS
L27 0 FILE CEABA-VTB
L28 0 FILE CEN
L29 0 FILE CIN
L30 0 FILE CONFSCI
L31 0 FILE CROPB
L32 0 FILE CROPU
L33 0 FILE DGENE
L34 0 FILE DRUGB
L35 0 FILE DRUGLAUNCH
L36 0 FILE DRUGMONOG2
L37 0 FILE DRUGNL
L38 0 FILE DRUGU
L39 0 FILE DRUGUPDATES
L40 0 FILE EMBAL
L41 2 FILE EMBASE
L42 2 FILE ESBIODASE

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH

FIELD CODE - 'AND' OPERATOR ASSUMED 'PROTEIN?) (S) '

L43 0 FILE FEDRIP
L44 0 FILE FOMAD
L45 0 FILE FOREGE
L46 0 FILE FROSTI
L47 1 FILE FSTA
L48 9 FILE GENBANK
L49 0 FILE HEALSAFE

```

L50      0 FILE IFIPAT
L51      0 FILE JICST-EPLUS
L52      0 FILE KOSMET
L53      0 FILE LIFESCI
L54      0 FILE MEDICONF
L55      0 FILE MEDLINE
L56      0 FILE NIOSHTIC
L57      0 FILE NTIS
L58      0 FILE NUTRACEUT
L59      0 FILE OCEAN
TERM 'PRO?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
L60      0 FILE PCTGEN
L61      0 FILE PHAR
L62      0 FILE PHARMAML
L63      0 FILE PHIC
L64      0 FILE PHIN
L65      0 FILE PROMT
L66      0 FILE RDISCLOSURE
L67      2 FILE SCISEARCH
L68      0 FILE SYNTHLINE
L69      0 FILE TOXCENTER
L70      1790 FILE USPATFULL
L71      39 FILE USPAT2
L72      0 FILE VETB
L73      0 FILE VETU
L74      1 FILE WPIDS
L75      0 FILE ALUMINIUM
L76      0 FILE APOLLIT
L77      0 FILE AQUIRE
L78      0 FILE BABS
L79      0 FILE CAOLD
L80      0 FILE CBNB
L81      0 FILE CERAB
L82      0 FILE COMPENDEX
L83      0 FILE COPPERLIT
L84      0 FILE CORROSION
L85      0 FILE ENCOMPLIT2
L86      0 FILE INSPEC
L87      0 FILE INSPHYS
L88      0 FILE INVESTEXT
L89      0 FILE IPA
L90      0 FILE METADEX
L91      0 FILE NAPRALERT
L92      0 FILE PAPERCHEM2
L93      0 FILE RAPRA
L94      0 FILE RUSSCI
L95      0 FILE STANDARDS
L96      0 FILE TULSA
L97      0 FILE TULSA2
L98      0 FILE USAN
L99      0 FILE WELDASEARCH
L100     0 FILE WSCA

```

TOTAL FOR ALL FILES

```

L101     1851 (PEPTIDE? OR PROTEIN?) (S) (STABIL? OR (STABIL (W) (GROUP? OR
MOIET? ))) AND (PROLINE# OR PRO-PRO?) AND (THIOREDOXIN OR GLUTATH
IONE (W) SULFOTRANSFERASE OR MALTOSE (W) BINDING (W) PROTEIN#
OR GLUTATHIONE (W) REDUCTASE) AND FUS?

```

You have entered a truncated stem which occurs in too many terms.
 Make the stem longer and try again. For example, if your original
 term was 'degr?' to search for variations and the abbreviation for
 'degradation', you could replace it with the expression '(degrdn OR
 degrad?)'. If your search term was numeric, e.g., 'C>5', reduce the
 size of the range.

=>

=>

=>

=>

=>

=>

=> s l101 and proline? and (N (w) termin) and (C (w) termin)
) IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l101 and proline? and (N (w) termin) and (C (w) termin)
) IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l101 and proline? and N- (w) termin? and C- (w) termin?

L102	0	FILE ADISCTI
L103	0	FILE ADISINSIGHT
L104	0	FILE ADISNEWS
L105	0	FILE AGRICOLA
L106	0	FILE ANABSTR
L107	0	FILE AQUASCI
L108	0	FILE BIOBUSINESS
L109	0	FILE BIOCOMMERCE
L110	0	FILE BIOSIS
L111	0	FILE BIOTECHDS
L112	0	FILE BIOTECHNO
L113	0	FILE CABA
L114	0	FILE CANCERLIT
L115	1	FILE CAPLUS
L116	0	FILE CEABA-VTB
L117	0	FILE CEN
L118	0	FILE CIN
L119	0	FILE CONFSCI
L120	0	FILE CROPB
L121	0	FILE CROPU
L122	0	FILE DGENE
L123	0	FILE DRUGB
L124	0	FILE DRUGLAUNCH
L125	0	FILE DRUGMONOG2
L126	0	FILE DRUGNL
L127	0	FILE DRUGU
L128	0	FILE DRUGUPDATES
L129	0	FILE EMBAL
L130	0	FILE EMBASE
L131	0	FILE ESBIODBASE
L132	0	FILE FEDRIP
L133	0	FILE FOMAD
L134	0	FILE FOREGE
L135	0	FILE FROSTI
L136	0	FILE FSTA
L137	7	FILE GENBANK
L138	0	FILE HEALSAFE
L139	0	FILE IFIPAT
L140	0	FILE JICST-EPLUS
L141	0	FILE KOSMET

```

L142      0 FILE LIFESCI
L143      0 FILE MEDICONF
L144      0 FILE MEDLINE
L145      0 FILE NIOSHTIC
L146      0 FILE NTIS
L147      0 FILE NUTRACEUT
L148      0 FILE OCEAN
TERM 'PRO?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
L149      0 FILE PCTGEN
L150      0 FILE PHAR
L151      0 FILE PHARMAML
L152      0 FILE PHIC
L153      0 FILE PHIN
L154      0 FILE PROMT
L155      0 FILE RDISCLOSURE
L156      0 FILE SCISEARCH
L157      0 FILE SYNTHLINE
L158      0 FILE TOXCENTER
L159      1182 FILE USPATFULL
L160      29 FILE USPAT2
L161      0 FILE VETB
L162      0 FILE VETU
L163      0 FILE WPIDS
L164      0 FILE ALUMINIUM
L165      0 FILE APOLLIT
L166      0 FILE AQUIRE
L167      0 FILE BABS
L168      0 FILE CAOLD
L169      0 FILE CBNB
L170      0 FILE CERAB
L171      0 FILE COMPENDEX
L172      0 FILE COPPERLIT
L173      0 FILE CORROSION
L174      0 FILE ENCOMPLIT2
L175      0 FILE INSPEC
L176      0 FILE INSPHYS
L177      0 FILE INVESTEXT
L178      0 FILE IPA
L179      0 FILE METADEX
L180      0 FILE NAPRALERT
L181      0 FILE PAPERCHEM2
L182      0 FILE RAPRA
L183      0 FILE RUSSCI
L184      0 FILE STANDARDS
L185      0 FILE TULSA
L186      0 FILE TULSA2
L187      0 FILE USAN
L188      0 FILE WELDASEARCH
L189      0 FILE WSCA

```

TOTAL FOR ALL FILES

```
L190      1219 L101 AND PROLINE? AND N- (W) TERMIN? AND C- (W) TERMIN?
```

You have entered a truncated stem which occurs in too many terms.
 Make the stem longer and try again. For example, if your original
 term was 'degr?' to search for variations and the abbreviation for
 'degradation', you could replace it with the expression '(degrdn OR
 degrad?)'. If your search term was numeric, e.g., 'C>5', reduce the
 size of the range.

```
=> s 1190 and (PROLINE? AND fusion? (s) (N- (W) TERMIN? AND C- (W) TERMIN?))
```

PROXIMITY OPERATION NOT ALLOWED

Certain operators may not be nested in combination with other
 operators. A nested operator is valid only when it occurs at the same
 level or above the operator outside the nested phrase as determined by
 the following precedence list:

1. Numeric
2. (W), (NOTW), (A), (NOTA)
3. (S), (NOTS)
4. (P), (NOTP)
5. (L), (NOTL)
6. AND, NOT
7. OR

For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W) is above (L) on the precedence list. However, '((THIN(W)LAYER)(L)PHOSPHOLIPID#)(A)LACTONE#' is not valid since (L) is below (A) on the precedence list. The only exception is the 'OR' operator. This operator may be used in combination with any other operator. For example, '(ATOMIC OR NUCLEAR)(W)REACTOR' is valid.

=> s l190 and (PROLINE? AND fusion? (s) N- (W) TERMIN? (s) C- (W) TERMIN?)

L191 0 FILE ADISCTI
 L192 0 FILE ADISINSIGHT
 L193 0 FILE ADISNEWS
 L194 0 FILE AGRICOLA
 L195 0 FILE ANABSTR
 L196 0 FILE AQUASCI
 L197 0 FILE BIOBUSINESS
 L198 0 FILE BIOCOMMERCE
 L199 0 FILE BIOSIS
 L200 0 FILE BIOTECHDS
 L201 0 FILE BIOTECHNO
 L202 0 FILE CABA
 L203 0 FILE CANCERLIT
 L204 0 FILE CAPLUS
 L205 0 FILE CEABA-VTB
 L206 0 FILE CEN
 L207 0 FILE CIN
 L208 0 FILE CONFSCI
 L209 0 FILE CROPB
 L210 0 FILE CROPU
 L211 0 FILE DGENE
 L212 0 FILE DRUGB
 L213 0 FILE DRUGLAUNCH
 L214 0 FILE DRUGMONOG2
 L215 0 FILE DRUGNL
 L216 0 FILE DRUGU
 L217 0 FILE DRUGUPDATES
 L218 0 FILE EMBAL
 L219 0 FILE EMBASE
 L220 0 FILE ESBIODASE

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'FUSION? (S) N-'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'TERMIN? (S) C-'

L221 0 FILE FEDRIP
 L222 0 FILE FOMAD
 L223 0 FILE FOREGE
 L224 0 FILE FROSTI
 L225 0 FILE FSTA
 L226 3 FILE GENBANK
 L227 0 FILE HEALSAFE
 L228 0 FILE IFIPAT
 L229 0 FILE JICST-EPLUS
 L230 0 FILE KOSMET
 L231 0 FILE LIFESCI
 L232 0 FILE MEDICONF
 L233 0 FILE MEDLINE
 L234 0 FILE NIOSHTIC

```

L235      0 FILE NTIS
L236      0 FILE NUTRACEUT
L237      0 FILE OCEAN
TERM 'PRO?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
L238      0 FILE PCTGEN
L239      0 FILE PHAR
L240      0 FILE PHARMAML
L241      0 FILE PHIC
L242      0 FILE PHIN
L243      0 FILE PROMT
L244      0 FILE RDISCLOSURE
L245      0 FILE SCISEARCH
L246      0 FILE SYNTHLINE
L247      0 FILE TOXCENTER
L248      615 FILE USPATFULL
L249      22 FILE USPAT2
L250      0 FILE VETB
L251      0 FILE VETU
L252      0 FILE WPIDS
L253      0 FILE ALUMINIUM
L254      0 FILE APOLLIT
L255      0 FILE AQUIRE
L256      0 FILE BABS
L257      0 FILE CAOLD
L258      0 FILE CBNB
L259      0 FILE CERAB
L260      0 FILE COMPENDEX
L261      0 FILE COPPERLIT
L262      0 FILE CORROSION
L263      0 FILE ENCOMPLIT2
L264      0 FILE INSPEC
L265      0 FILE INSPHYS
L266      0 FILE INVESTEXT
L267      0 FILE IPA
L268      0 FILE METADEX
L269      0 FILE NAPRALERT
L270      0 FILE PAPERCHEM2
L271      0 FILE RAPRA
L272      0 FILE RUSSCI
L273      0 FILE STANDARDS
L274      0 FILE TULSA
L275      0 FILE TULSA2
L276      0 FILE USAN
L277      0 FILE WELDASEARCH
L278      0 FILE WSCA

```

TOTAL FOR ALL FILES

```

L279      640 L190 AND (PROLINE? AND FUSION? (S) N- (W) TERMIN? (S) C- (W)
          TERMIN?)

```

You have entered a truncated stem which occurs in too many terms.
 Make the stem longer and try again. For example, if your original
 term was 'degr?' to search for variations and the abbreviation for
 'degradation', you could replace it with the expression '(degrdn OR
 degrad?)'. If your search term was numeric, e.g., 'C>5', reduce the
 size of the range.

=> dup rem l279

DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, ADISNEWS, BIOCOMMERCE, DGENE,
 DRUGLAUNCH, DRUGMONOG2, DRUGUPDATES, FEDRIP, FOREGE, GENBANK, KOSMET,
 MEDICONF, NUTRACEUT, PCTGEN, PHAR, PHARMAML, RDISCLOSURE, SYNTHLINE, AQUIRE,
 CAOLD, INVESTEXT, STANDARDS, USAN'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L279

```

L280      618 DUP REM L279 (22 DUPLICATES REMOVED)

```

=> s 1280 and pro-pro

L281	0 S L280
L282	0 FILE ADISCTI
L283	0 S L280
L284	0 FILE ADISINSIGHT
L285	0 S L280
L286	0 FILE ADISNEWS
L287	0 S L280
L288	0 FILE AGRICOLA
L289	0 S L280
L290	0 FILE ANABSTR
L291	0 S L280
L292	0 FILE AQUASCI
L293	0 S L280
L294	0 FILE BIOBUSINESS
L295	0 S L280
L296	0 FILE BIOCOMMERCE
L297	0 S L280
L298	0 FILE BIOSIS
L299	0 S L280
L300	0 FILE BIOTECHDS
L301	0 S L280
L302	0 FILE BIOTECHNO
L303	0 S L280
L304	0 FILE CABA
L305	0 S L280
L306	0 FILE CANCERLIT
L307	0 S L280
L308	0 FILE CAPLUS
L309	0 S L280
L310	0 FILE CEABA-VTB
L311	0 S L280
L312	0 FILE CEN
L313	0 S L280
L314	0 FILE CIN
L315	0 S L280
L316	0 FILE CONFSCI
L317	0 S L280
L318	0 FILE CROPB
L319	0 S L280
L320	0 FILE CROPU
L321	0 S L280
L322	0 FILE DGENE
L323	0 S L280
L324	0 FILE DRUGB
L325	0 S L280
L326	0 FILE DRUGLAUNCH
L327	0 S L280
L328	0 FILE DRUGMONOG2
L329	0 S L280
L330	0 FILE DRUGNL
L331	0 S L280
L332	0 FILE DRUGU
L333	0 S L280
L334	0 FILE DRUGUPDATES
L335	0 S L280
L336	0 FILE EMBAL
L337	0 S L280
L338	0 FILE EMBASE
L339	0 S L280
L340	0 FILE ESBIODBASE
L341	0 S L280
L342	0 FILE FEDRIP
L343	0 S L280
L344	0 FILE FOMAD

L345	0 S L280
L346	0 FILE FOREGE
L347	0 S L280
L348	0 FILE FROSTI
L349	0 S L280
L350	0 FILE FSTA
L351	3 S L280
L352	0 FILE GENBANK
L353	0 S L280
L354	0 FILE HEALSAFE
L355	0 S L280
L356	0 FILE IFIPAT
L357	0 S L280
L358	0 FILE JICST-EPLUS
L359	0 S L280
L360	0 FILE KOSMET
L361	0 S L280
L362	0 FILE LIFESCI
L363	0 S L280
L364	0 FILE MEDICONF
L365	0 S L280
L366	0 FILE MEDLINE
L367	0 S L280
L368	0 FILE NIOSHTIC
L369	0 S L280
L370	0 FILE NTIS
L371	0 S L280
L372	0 FILE NUTRACEUT
L373	0 S L280
L374	0 FILE OCEAN
L375	0 S L280
L376	0 FILE PASCAL
L377	0 S L280
L378	0 FILE PCTGEN
L379	0 S L280
L380	0 FILE PHAR
L381	0 S L280
L382	0 FILE PHARMAML
L383	0 S L280
L384	0 FILE PHIC
L385	0 S L280
L386	0 FILE PHIN
L387	0 S L280
L388	0 FILE PROMT
L389	0 S L280
L390	0 FILE RDISCLOSURE
L391	0 S L280
L392	0 FILE SCISEARCH
L393	0 S L280
L394	0 FILE SYNTHLINE
L395	0 S L280
L396	0 FILE TOXCENTER
L397	615 S L280
L398	387 FILE USPATFULL
L399	0 S L280
L400	0 FILE USPAT2
L401	0 S L280
L402	0 FILE VETB
L403	0 S L280
L404	0 FILE VETU
L405	0 S L280
L406	0 FILE WPIDS
L407	0 S L280
L408	0 FILE ALUMINIUM
L409	0 S L280

L410	0	FILE APOLLIT
L411	0	S L280
L412	0	FILE AQUIRE
L413	0	S L280
L414	0	FILE BABS
L415	0	S L280
L416	0	FILE CAOLD
L417	0	S L280
L418	0	FILE CBNB
L419	0	S L280
L420	0	FILE CERAB
L421	0	S L280
L422	0	FILE COMPENDEX
L423	0	S L280
L424	0	FILE COPPERLIT
L425	0	S L280
L426	0	FILE CORROSION
L427	0	S L280
L428	0	FILE ENCOMPLIT2
L429	0	S L280
L430	0	FILE INSPEC
L431	0	S L280
L432	0	FILE INSPHYS
L433	0	S L280
L434	0	FILE INVESTEXT
L435	0	S L280
L436	0	FILE IPA
L437	0	S L280
L438	0	FILE METADEX
L439	0	S L280
L440	0	FILE NAPRALERT
L441	0	S L280
L442	0	FILE PAPERCHEM2
L443	0	S L280
L444	0	FILE RAPRA
L445	0	S L280
L446	0	FILE RUSSCI
L447	0	S L280
L448	0	FILE STANDARDS
L449	0	S L280
L450	0	FILE TULSA
L451	0	S L280
L452	0	FILE TULSA2
L453	0	S L280
L454	0	FILE USAN
L455	0	S L280
L456	0	FILE WELDASEARCH
L457	0	S L280
L458	0	FILE WSCA

TOTAL FOR ALL FILES

L459 387 L280 AND PRO-PRO

=> s l459 and (pro-pro- and (small (w) stabl?))

L460	0	FILE ADISCTI
L461	0	FILE ADISINSIGHT
L462	0	FILE ADISNEWS
L463	0	FILE AGRICOLA
L464	0	FILE ANABSTR
L465	0	FILE AQUASCI
L466	0	FILE BIOBUSINESS
L467	0	FILE BIOCOMMERCE
L468	0	FILE BIOSIS
L469	0	FILE BIOTECHDS
L470	0	FILE BIOTECHNO

L471	0 FILE CABA
L472	0 FILE CANCERLIT
L473	0 FILE CAPLUS
L474	0 FILE CEABA-VTB
L475	0 FILE CEN
L476	0 FILE CIN
L477	0 FILE CONFSCI
L478	0 FILE CROPB
L479	0 FILE CROPU
L480	0 FILE DGENE
L481	0 FILE DRUGB
L482	0 FILE DRUGLAUNCH
L483	0 FILE DRUGMONOG2
L484	0 FILE DRUGNL
L485	0 FILE DRUGU
L486	0 FILE DRUGUPDATES
L487	0 FILE EMBAL
L488	0 FILE EMBASE
L489	0 FILE ESBIODBASE
L490	0 FILE FEDRIP
L491	0 FILE FOMAD
L492	0 FILE FOREGE
L493	0 FILE FROSTI
L494	0 FILE FSTA
L495	0 FILE GENBANK
L496	0 FILE HEALSAFE
L497	0 FILE IFIPAT
L498	0 FILE JICST-EPLUS
L499	0 FILE KOSMET
L500	0 FILE LIFESCI
L501	0 FILE MEDICONF
L502	0 FILE MEDLINE
L503	0 FILE NIOSHTIC
L504	0 FILE NTIS
L505	0 FILE NUTRACEUT
L506	0 FILE OCEAN
L507	0 FILE PASCAL
L508	0 FILE PCTGEN
L509	0 FILE PHAR
L510	0 FILE PHARMAML
L511	0 FILE PHIC
L512	0 FILE PHIN
L513	0 FILE PROMT
L514	0 FILE RDISCLOSURE
L515	0 FILE SCISEARCH
L516	0 FILE SYNTHLINE
L517	0 FILE TOXCENTER
L518	7 FILE USPATFULL
L519	0 FILE USPAT2
L520	0 FILE VETB
L521	0 FILE VETU
L522	0 FILE WPIDS
L523	0 FILE ALUMINIUM
L524	0 FILE APOLLIT
L525	0 FILE AQUIRE
L526	0 FILE BABS
L527	0 FILE CAOLD
L528	0 FILE CBNB
L529	0 FILE CERAB
L530	0 FILE COMPENDEX
L531	0 FILE COPPERLIT
L532	0 FILE CORROSION
L533	0 FILE ENCOMPLIT2
L534	0 FILE INSPEC
L535	0 FILE INSPHYS

L536 0 FILE INVESTEXT
 L537 0 FILE IPA
 L538 0 FILE METADEX
 L539 0 FILE NAPRALERT
 L540 0 FILE PAPERCHEM2
 L541 0 FILE RAPRA
 L542 0 FILE RUSSCI
 L543 0 FILE STANDARDS
 L544 0 FILE TULSA
 L545 0 FILE TULSA2
 L546 0 FILE USAN
 L547 0 FILE WELDASEARCH
 L548 0 FILE WSCA

TOTAL FOR ALL FILES

L549 7 L459 AND (PRO-PRO- AND (SMALL (W) STABL?))

=> d l549 ibib abs

L549 ANSWER 1 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:238122 USPATFULL
 TITLE: Minicell-based transfection
 INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
 Berkley, Neil, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003166279	A1	20030904
APPLICATION INFO.:	US 2002-157391	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359843P	20020225 (60)
	US 2001-293566P	20010524 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18548	

AB The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.

=> d l549 1-7 ibib abs

L549 ANSWER 1 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:238122 USPATFULL
 TITLE: Minicell-based transfection
 INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
 Berkley, Neil, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003166279	A1	20030904
APPLICATION INFO.:	US 2002-157391	A1	20020528 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2002-154951, filed on 24 May 2002, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359843P	20020225 (60)
	US 2001-293566P	20010524 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18548	
AB	The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.	

L549 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:237942 USPATFULL
 TITLE: Minicells comprising membrane proteins
 INVENTOR(S): Sabbadini, Roger A., Lakeside, CA, UNITED STATES
 Surber, Mark W., Coronado, CA, UNITED STATES
 Berkley, Neil, San Diego, CA, UNITED STATES
 Segall, Anca M., San Diego, CA, UNITED STATES
 Klepper, Robert, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003166099	A1	20030904
APPLICATION INFO.:	US 2002-157305	A1	20020528 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-295566P	20010605 (60)
	US 2002-359843P	20020225 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	18580	
AB	The invention provides compositions and methods for the production of achromosomal and anucleate cells useful for applications such as diagnostic and therapeutic uses, as well as research tools and agents for drug discovery.	

L549 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:207204 USPATFULL
 TITLE: Structurally biased random peptide libraries based on
different scaffolds
 INVENTOR(S): Anderson, David, San Bruno, CA, UNITED STATES
 Peelle, Beau Robert, Locust Valley, NY, UNITED STATES
 Bogenberger, Jakob Maria, San Francisco, CA, UNITED STATES
 PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc. (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003143562	A1	20030731
APPLICATION INFO.:	US 2002-177725	A1	20020620 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-415765, filed on 8 Oct 1999, PENDING Continuation-in-part of Ser. No. US 1998-169015, filed on 8 Oct 1998, GRANTED, Pat. No. US 6180343

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Robin M. Silva, Esq., DORSEY & WHITNEY LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111

NUMBER OF CLAIMS: 35

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 9 Drawing Page(s)

LINE COUNT: 6442

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the use of scaffold **proteins**, particularly green fluorescent **protein** (GFP), in **fusion** constructs with random and defined **peptides** and **peptide** libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational **stability** relative to linear **peptides**, and to increase the steady state concentrations of the library **peptides** and **peptide** library members expressed in cells for the purpose of detecting the presence of the **peptides** and screening **peptide** libraries. **N-terminal**, **C-terminal**, dual **N-** and **C-terminal** and one or more internal **fusions** are all contemplated. Novel **fusions** utilizing self-binding **peptides** to create a conformationally **stabilized fusion** domain are also contemplated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L549 ANSWER 4 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:129823 USPATFULL

TITLE: **Fusions** of scaffold proteins with random peptide libraries

INVENTOR(S): Anderson, David, San Bruno, CA, United States
Peelle, Beau Robert, San Francisco, CA, United States
Bogenberger, Jakob Maria, San Mateo, CA, United States

PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6562617	B1	20030513
APPLICATION INFO.:	US 2000-626580		20000727 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-415765, filed on 8 Oct 1999 Continuation-in-part of Ser. No. US 1998-169015, filed on 8 Oct 1998, now patented, Pat. No. US 6180343		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Brusca, John S.		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	4327		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the use of scaffold **proteins**, particularly green fluorescent **protein** (GFP), in **fusion** constructs with random and defined **peptides** and **peptide** libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational **stability** relative to linear **peptides**, and to increase the steady state concentrations of the random **peptides** and random **p ptide** library members expressed in cells for the purpose of detecting the presence of the **peptides** and

screening random **peptide** libraries. **N-terminal, C-terminal**, dual **N- and C-terminal** and one or more internal **fusions** are all contemplated. Novel **fusions** utilizing self-binding **peptides** to create a conformationally **stabilized fusion** domain are also contemplated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L549 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:102442 USPATFULL
TITLE: **Fusions** of scaffold proteins with random peptide libraries
INVENTOR(S): Anderson, David, San Bruno, CA, United States
Peelle, Beau Robert, San Francisco, CA, United States
Bogenberger, Jakob Maria, San Mateo, CA, United States
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6548632	B1	20030415
APPLICATION INFO.:	US 1999-415765		19991008 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1998-169015, filed on 8 Oct 1998, now patented, Pat. No. US 6180343		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Brusca, John S.		
NUMBER OF CLAIMS:	25		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	4469		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the use of scaffold **proteins**, particularly green fluorescent **protein** (GFP), in **fusion** constructs with random and defined **peptides** and **peptide** libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational **stability** relative to linear **peptides**, and to increase the steady state concentrations of the random **peptides** and random **peptide** library members expressed in cells for the purpose of detecting the presence of the **peptides** and screening random **peptide** libraries. **N-terminal, C-terminal**, dual **N- and C-terminal** and one or more internal **fusions** are all contemplated. Novel **fusions** utilizing self-binding **peptides** to create a conformationally **stabilized fusion** domain are also contemplated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L549 ANSWER 6 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:102234 USPATFULL
TITLE: **Fusions** of scaffold proteins with random peptide libraries
INVENTOR(S): Anderson, David, San Bruno, CA, United States
Peelle, Beau Robert, San Francisco, CA, United States
Bogenberger, Jakob Maria, San Mateo, CA, United States
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6548249	B1	20030415
APPLICATION INFO.:	US 2000-626581		20000727 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-415765, filed on 8 Oct 1999 Continuation-in-part of Ser. No. US 1998-169015, filed on 8 Oct 1998, now patented, Pat. No. US 6180343

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 29
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 4415

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the use of scaffold **proteins**, particularly green fluorescent **protein** (GFP), in **fusion** constructs with random and defined **peptides** and **peptide** libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational **stability** relative to linear **peptides**, and to increase the steady state concentrations of the random **peptides** and random **peptide** library members expressed in cells for the purpose of detecting the presence of the **peptides** and screening random **peptide** libraries. N-terminal, C-terminal, dual N- and C-terminal and one or more internal **fusions** are all contemplated. Novel **fusions** utilizing self-binding **peptides** to create a conformationally **stabilized fusion** domain are also contemplated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L549 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:23733 USPATFULL
TITLE: Polymerase kappa compositions and methods thereof
INVENTOR(S): Friedberg, Errol C., Dallas, TX, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Feaver, William J., Branford, CT, UNITED STATES
PATENT ASSIGNEE(S): Board of Regents, The University of Texas system (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003017573	A1	20030123
APPLICATION INFO.:	US 2001-971101	A1	20011004 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-238289P	20001004 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Gina N. Shishima, Fulbright & Jaworski L.L.P., Suite 2400, 600 Congress Avenue, Austin, TX, 78701	
NUMBER OF CLAIMS:	76	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	7042	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention concerns compositions and methods involving mammalian polymerase kappa, an enzyme with limited fidelity and moderate processivity. Methods of modulating polymerase kappa activity, such as inhibiting or reducing its activity, as a means of effecting a cancer treatment or preventative agent are provided, both by itself and in combination with other anti-cancer therapies. Also described are methods of screening involving assaying for polymerase kappa activity or expression, in addition to methods of screening for modulators of polymerase kappa to identify anti-cancer compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.